

We claim:

1. A method of controlling the operation of a plurality of security gate operating mechanisms, comprising:

- 5       providing a central computer system, including an associated memory system;
- providing a network connection between the central computer system and each of the plurality of security gate operating mechanisms;
- storing in the associated memory system software used in operating at least some of the respective security gate operating mechanisms;
- 10       storing in the associated memory system operating system parameters for each of the respective security gate operating mechanisms;
- providing over the network the software and operating parameters to respective ones of the security gate operating mechanisms.

15   2. The method as claimed in claim 1 further comprising:

- storing the operating parameters a respective table(s) and/or sub-tables stored in the associated memory system;
- updating the content of the respective table(s) and/or sub-tables for a respective security gate operating system;
- 20       providing over the internet the updated respective table(s) and/or sub-tables to the respective security gate operating mechanism;
- verifying that the updated table(s) and/or sub-tables have been received at the respective security gate operating mechanism;
- substituting the updated table(s) and/or sub-tables at the respective security gate operating mechanism for a currently used table(s) and/or sub-table.
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3. The method of claim 1 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

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4. The method of claim 2 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

35   5. The method of claim 1 wherein the network is a connection over the Internet.

6. The method of claim 2 wherein the network is a connection over the Internet.

7. The method of claim 1 wherein the network connection is over the world wide web.

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8. The method of claim 2 wherein the network connection is over the world wide web.

9. The method of claim 1 wherein the step of storing comprises:

10 communicating over the network to the server computer system from at  
least one of the respective security gate operating mechanisms and/or a remote  
location a request to update an operating parameter and/or operating system or  
application software at the respective security gate operating mechanism;  
15 processing the requested update at the server computer system; and  
providing for delivery to the respective security gate operating system  
either the updated operating parameters and/or operating system or applications  
software.

10. The method of claim 2 wherein the step of storing comprises:

20 communicating over the network to the server computer system from at  
least one of the respective security gate operating mechanisms and/or a remote  
location a request to update an operating parameter and/or operating system or  
application software at the respective security gate operating mechanism;  
processing the requested update at the server computer system; and  
25 providing for delivery to the respective security gate operating system  
either the updated operating parameters and/or operating system or applications  
software.

11. A method of controlling the operation of a plurality of security gate operating  
30 mechanisms, comprising:

providing a central computer system, including an associated memory  
system;

providing a network connection between the central computer system and  
each of the plurality of security gate operating mechanisms;

35 storing in the associated memory system software used in operating at least  
some of the respective security gate operating mechanisms;

storing in the associated memory system operating system parameters for each of the respective security gate operating mechanisms;

providing the software to a respective one of the security gate operating systems on a client-server basis running the software on the central computer system as the server and utilizing the operating parameters as stored in the associated memory.

12. The method as claimed in claim 11 further comprising:

storing the operating parameters a respective table(s) and/or sub-tables stored in the associated memory system;

updating the content of the respective table(s) and/or sub-tables for a respective security gate operating system;

verifying that the updated table(s) and/or sub-tables have been properly revised;

substituting the updated table(s) and/or sub-tables in the associated memory system for a currently used table(s) and/or sub-table.

13. The method of claim 11 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

14. The method of claim 12 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

15. The method of claim 11 wherein the network is a connection over the Internet.

16. The method of claim 12 wherein the network is a connection over the Internet.

17. The method of claim 11 wherein the network connection is over the world wide web.

18. The method of claim 12 wherein the network connection is over the world wide web.

19. The method of claim 11 wherein the step of storing comprises:

communicating over the network to the server computer system from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

- 5           processing the requested update at the server computer system; and  
          providing for access on the server computer system by a respective security gate operating system either the updated operating parameters and/or operating system or applications software.

- 10   20. The method of claim 12 wherein the step of storing comprises:

communicating over the network to the server computer system from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

- 15           processing the requested update at the server computer system; and  
          providing for access on the server computer system by a respective security gate operating system either the updated operating parameters and/or operating system or applications software.

- 20   21. A method of controlling the operation of a plurality of security gate operating mechanisms, comprising:

providing a central computer system, including an associated memory system;

- 25           providing a network connection between the central computer system and each of the plurality of security gate operating mechanisms;

storing in the associated memory system software used in operating at least some of the respective security gate operating mechanisms;

storing in the associated memory system operating system parameters for each or the respective security gate operating mechanisms;

- 30           providing over the network some of the software and/or operating parameters to a respective one of the security gate operating mechanisms and providing access to some of the software to the respective one of the security gate operating systems on a client-server basis running the software on the central computer system as the server and utilizing the operating parameters as stored in  
35   the associated memory and/or as stored at the security gate operating mechanism.

22. The method as claimed in claim 21 further comprising:

storing the operating parameters a respective table(s) and/or sub-tables stored in the associated memory system and/or at the respective security gate operating mechanism;

5 updating the content of the respective table(s) and/or sub-tables for the respective security gate operating system;

verifying that the updated table(s) and/or sub-tables have been properly revised;

substituting the updated table(s) and/or sub-tables in the associated memory  
10 and/or at the respective security gate operating mechanism for a currently used table(s) and/or sub-table.

23. The method of claim 21 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network,  
15 an intranet, an extranet or a combination of one or more of these.

24. The method of claim 22 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.  
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25. The method of claim 21 wherein the network is a connection over the Internet.

26. The method of claim 22 wherein the network is a connection over the Internet.

27. The method of claim 21 wherein the network connection is over the world wide web.  
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28. The method of claim 22 wherein the network connection is over the world wide web.  
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29. The method of claim 21 wherein the step of storing comprises:

communicating over the network to the server computer system from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;  
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processing the requested update at the server computer system; and

providing for delivery to and/or access by the respective security gate operating system either the updated operating parameters and/or operating system or applications software.

5 30. The method of claim 22 wherein the step of storing comprises:

communicating over the network to the server computer system from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

10 processing the requested update at the server computer system; and  
providing for delivery to and/or access by the respective security gate operating system either the updated operating parameters and/or operating system or applications software.

15 31. A security gate operating mechanism controlling apparatus for controlling the operation of a plurality of security gate operating mechanisms, comprising:

a central computer system, including an associated memory system;

a network connection between the central computer system and each of the plurality of security gate operating mechanisms;

20 the associated memory system having stored therein software used in operating at least some of the respective security gate operating mechanisms;

the associated memory system having stored therein operating system parameters for each of the respective security gate operating mechanisms;

25 the network connection being adapted to provide over the network the software and operating parameters to respective ones of the security gate operating mechanisms.

32. The apparatus as claimed in claim 31 further comprising:

30 the associated memory system having a respective table(s) and/or sub-tables in which the operating parameters are stored;

an mechanism adapted to update the content of the respective table(s) and/or sub-tables for a respective security gate operating system;

35 the network connection being adapted to provide over the internet the updated respective table(s) and/or sub-tables to the respective security gate operating mechanism;

a verification mechanism at the respective security gate operating

mechanism adapted to verify that the updated table(s) and/or sub-tables have been received at the respective security gate operating mechanism;

5 a substitution mechanism adapted to substitute the updated table(s) and/or sub-tables at the respective security gate operating mechanism for a currently used table(s) and/or sub-table.

33. The apparatus of claim 31 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

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34. The apparatus of claim 32 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

15 35. The apparatus of claim 31 wherein the network is a connection over the Internet.

36. The apparatus of claim 32 wherein the network is a connection over the Internet.

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37. The apparatus of claim 31 wherein the network connection is over the world wide web.

25 38. The apparatus of claim 32 wherein the network connection is over the world wide web.

39. The apparatus of claim 31 wherein the server computer system further comprises:

30 a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

35 a transmitter connected to the network connection adapted to deliver to the respective security gate operating system either the updated operating parameters

and/or operating system or applications software.

40. The apparatus of claim 32 wherein the server computer system further comprises:

- 5 a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;
- a processor adapted to process the requested update at the server computer
- 10 system; and
- a transmitter connected to the network connection adapted to deliver to the respective security gate operating system either the updated operating parameters and/or operating system or applications software.

15 41. A security gate operating mechanism controller for controlling the operation of a plurality of security gate operating mechanisms, comprising:

- a central computer system, including an associated memory system;
- a network connection between the central computer system and each of the plurality of security gate operating mechanisms;
- 20 the associated memory having stored therein software used in operating at least some of the respective security gate operating mechanisms;
- the associated memory system having stored therein operating parameters for each of the respective security gate operating mechanisms;
- the central computer system being adapted to provide the software to a
- 25 respective one of the security gate operating systems on a client-server basis running the software on the central computer system as the server and utilizing the operating parameters as stored in the associated memory.

42. The apparatus of claim 11 further comprising:

- 30 the associated memory having a respective table(s) and/or sub-tables in which the operating parameters for each respective security gate operating mechanism are stored;
- an updating mechanism adapted to update the content of the respective table(s) and/or sub-tables for a respective security gate operating system;
- 35 a verification mechanism adapted to verify that the updated table(s) and/or sub-tables have been properly revised;



a substituting mechanism adapted to substitute the updated table(s) and/or sub-tables in the associated memory system for a currently used table(s) and/or sub-table.

5 43. The apparatus of claim 41 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

10 44. The apparatus of claim 42 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

15 45. The apparatus of claim 41 wherein the network is a connection over the Internet.

46. The apparatus of claim 42 wherein the network is a connection over the Internet.

20 47. The apparatus of claim 41 wherein the network connection is over the world wide web.

48. The apparatus of claim 42 wherein the network connection is over the world wide web.

25 49. The apparatus of claim 41 wherein the central computer system further comprises:

30 a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

35 a client-server transceiver connected to the network connection adapted to provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating

commands to the respective security gate operating mechanism.

50. The apparatus of claim 42 wherein the step of storing comprises:

- a receiver connected to the network connection adapted to receive from at  
5 least one of the respective security gate operating mechanisms and/or a remote  
location a request to update an operating parameter and/or operating system or  
application software at the respective security gate operating mechanism;
- a processor adapted to process the requested update at the server computer  
system; and
- 10 a client-server transceiver connected to the network connection adapted to  
provide access by the respective security gate operating system to either the  
updated operating parameters and/or operating system or applications software in a  
client-server mode and to provide security gate operating mechanism operating  
commands to the respective security gate operating mechanism.

15 51. A security gate operating mechanism control system for controlling the  
operation of a plurality of security gate operating mechanisms, comprising:

- a central computer system, including an associated memory system;
- a network connection between the central computer system and each of the  
20 plurality of security gate operating mechanisms;
- the associated memory system having stored therein software used in  
operating at least some of the respective security gate operating mechanisms;
- the associated memory system having stored therein parameters for each of  
the respective security gate operating mechanisms;
- 25 the central computer system being adapted to provide over the network  
some of the software and/or operating parameters to a respective one of the  
security gate operating mechanisms and providing access to some of the software  
to the respective one of the security gate operating systems on a client-server basis  
running the software on the central computer system as the server and utilizing the  
30 operating parameters as stored in the associated memory and/or as stored at the  
security gate operating mechanism.

52. The apparatus as claimed in claim 51 further comprising:

- the apparatus having stored therein the operating parameters in a respective  
35 table(s) and/or sub-tables stored in the associated memory system and/or at the  
respective security gate operating mechanism;

an updating mechanism at the central computer system and at the respective security gate operating mechanism adapted to update the content of the respective table(s) and/or sub-tables for the respective security gate operating mechanism, respectively at the central computer system or at the respective security gate operating mechanism;

a verifying mechanism at the central computer system and at the respective security gate operating mechanism adapted to verify that the updated table(s) and/or sub-tables have been properly revised;

a substitution mechanism at the central computer system and at the respective security gate operating mechanism adapted to substitute the updated table(s) and/or sub-tables in the associated memory and/or at the respective security gate operating mechanism for a currently used table(s) and/or sub-table.

53. The apparatus of claim 51 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

54. The apparatus of claim 52 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

55. The apparatus of claim 51 wherein the network is a connection over the Internet.

56. The apparatus of claim 52 wherein the network is a connection over the Internet.

57. The apparatus of claim 51 wherein the network connection is over the world wide web.

58. The apparatus of claim 52 wherein the network connection is over the world wide web.

59. The apparatus of claim 51 wherein the central computer system further comprises:

a receiver connected to the network connection adapted to receive from at

least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

5 a processor adapted to process the requested update at the server computer system; and

a client-server transceiver connected to the network connection adapted to provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating  
10 commands to the respective security gate operating mechanism.

60. The apparatus of claim 52 wherein the step of storing comprises:

a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote  
15 location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

a client-server transceiver connected to the network connection adapted to  
20 provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating commands to the respective security gate operating mechanism.

25 61. A security gate operating mechanism controlling apparatus for controlling the operation of a plurality of security gate operating mechanisms, comprising:

a central computer system, including an associated memory system;

a network connection between the central computer system and each of the plurality of security gate operating mechanisms;

30 the associated memory system having stored therein software used in operating at least some of the respective security gate operating mechanisms;

the associated memory system having stored therein operating system parameters for each of the respective security gate operating mechanisms;

35 means for providing over the network the software and operating parameters to respective ones of the security gate operating mechanisms.

62. The apparatus as claimed in claim 61 further comprising:

the associated memory system having a respective table(s) and/or sub-tables in which the operating parameters are stored;

an mechanism adapted to update the content of the respective table(s)  
5 and/or sub-tables for a respective security gate operating system;

the means for providing over the network including means for providing updated respective table(s) and/or sub-tables to the respective security gate operating mechanism;

a verification mechanism at the respective security gate operating  
10 mechanism adapted to verify that the updated table(s) and/or sub-tables have been received at the respective security gate operating mechanism;

a substitution mechanism adapted to substitute the updated table(s) and/or sub-tables at the respective security gate operating mechanism for a currently used table(s) and/or sub-table.

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63. The apparatus of claim 61 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

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64. The apparatus of claim 62 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

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65. The apparatus of claim 61 wherein the network is a connection over the Internet.

66. The apparatus of claim 62 wherein the network is a connection over the Internet.

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67. The apparatus of claim 61 wherein the network connection is over the world wide web.

68. The apparatus of claim 62 wherein the network connection is over the world wide web.

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69. The apparatus of claim 61 wherein the server computer system further

comprises:

a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

a transmitter connected to the network connection adapted to deliver to the respective security gate operating system either the updated operating parameters and/or operating system or applications software.

70. The apparatus of claim 62 wherein the server computer system further comprises:

a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

a transmitter connected to the network connection adapted to deliver to the respective security gate operating system either the updated operating parameters and/or operating system or applications software.

71. A security gate operating mechanism controller for controlling the operation of a plurality of security gate operating mechanisms, comprising:

a central computer system, including an associated memory system;

a network connection between the central computer system and each of the plurality of security gate operating mechanisms;

the associated memory having stored therein software used in operating at least some of the respective security gate operating mechanisms;

the associated memory system having stored therein operating parameters for each of the respective security gate operating mechanisms;

the central computer system including means for providing the software to a respective one of the security gate operating systems on a client-server basis running the software on the central computer system as the server and utilizing the operating parameters as stored in the associated memory.

72. The apparatus of claim 71 further comprising:

the associated memory having a respective table(s) and/or sub-tables in which the operating parameters for each respective security gate operating mechanism are stored;

an updating mechanism adapted to update the content of the respective table(s) and/or sub-tables for a respective security gate operating system;

a verification mechanism adapted to verify that the updated table(s) and/or sub-tables have been properly revised;

a substituting mechanism adapted to substitute the updated table(s) and/or sub-tables in the associated memory system for a currently used table(s) and/or sub-table.

73. The apparatus of claim 71 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

74. The apparatus of claim 72 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

75. The apparatus of claim 71 wherein the network is a connection over the Internet.

76. The apparatus of claim 72 wherein the network is a connection over the Internet.

77. The apparatus of claim 71 wherein the network connection is over the world wide web.

78. The apparatus of claim 72 wherein the network connection is over the world wide web.

79. The apparatus of claim 71 wherein the central computer system further comprises:

a receiver connected to the network connection adapted to receive from at

least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

5 a processor adapted to process the requested update at the server computer system; and

a client-server transceiver connected to the network connection adapted to provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating  
10 commands to the respective security gate operating mechanism.

80. The apparatus of claim 72 wherein the step of storing comprises:

a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote  
15 location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

a client-server transceiver connected to the network connection adapted to  
20 provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating commands to the respective security gate operating mechanism.

25 81. A security gate operating mechanism control system for controlling the operation of a plurality of security gate operating mechanisms, comprising:

a central computer system, including an associated memory system;

a network connection between the central computer system and each of the plurality of security gate operating mechanisms;

30 the associated memory system having stored therein software used in operating at least some of the respective security gate operating mechanisms;

the associated memory system having stored therein parameters for each of the respective security gate operating mechanisms;

the central computer system having means for providing over the network  
35 some of the software and/or operating parameters to a respective one of the security gate operating mechanisms and providing access to some of the software



to the respective one of the security gate operating systems on a client-server basis running the software on the central computer system as the server and utilizing the operating parameters as stored in the associated memory and/or as stored at the security gate operating mechanism.

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82. The apparatus as claimed in claim 81 further comprising:

the apparatus having stored therein the operating parameters in a respective table(s) and/or sub-tables stored in the associated memory system and/or at the respective security gate operating mechanism;

10 an updating mechanism at the central computer system and at the respective security gate operating mechanism adapted to update the content of the respective table(s) and/or sub-tables for the respective security gate operating mechanism, respectively at the central computer system or at the respective security gate operating mechanism;

15 a verifying mechanism at the central computer system and at the respective security gate operating mechanism adapted to verify that the updated table(s) and/or sub-tables have been properly revised;

a substitution mechanism at the central computer system and at the respective security gate operating mechanism adapted to substitute the updated  
20 table(s) and/or sub-tables in the associated memory and/or at the respective security gate operating mechanism for a currently used table(s) and/or sub-table.

83. The apparatus of claim 81 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network,  
25 an intranet, an extranet or a combination of one or more of these.

84. The apparatus of claim 82 wherein the network connection is a connection over one of the Internet, the world wide web, a local area network, a wide area network, an intranet, an extranet or a combination of one or more of these.

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85. The apparatus of claim 81 wherein the network is a connection over the Internet.

86. The apparatus of claim 82 wherein the network is a connection over the  
35 Internet.

87. The apparatus of claim 81 wherein the network connection is over the world wide web.

5 88. The apparatus of claim 82 wherein the network connection is over the world wide web.

89. The apparatus of claim 81 wherein the central computer system further comprises:

10 a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

a processor adapted to process the requested update at the server computer system; and

15 a client-server transceiver connected to the network connection adapted to provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating commands to the respective security gate operating mechanism.

20 90. The apparatus of claim 82 wherein the step of storing comprises:

a receiver connected to the network connection adapted to receive from at least one of the respective security gate operating mechanisms and/or a remote location a request to update an operating parameter and/or operating system or application software at the respective security gate operating mechanism;

25 a processor adapted to process the requested update at the server computer system; and

30 a client-server transceiver connected to the network connection adapted to provide access by the respective security gate operating system to either the updated operating parameters and/or operating system or applications software in a client-server mode and to provide security gate operating mechanism operating commands to the respective security gate operating mechanism.